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Chip Inductors (Chip Coils)





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- For more details, please refer to our web page, "Murata's Approach for EU RoHS" (<http://www.murata.com/en-eu/support/compliance/rohs>).

Because of the difference of measurement condition, electrical characteristics plots on this catalog may have some difference to official specification value.

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Please check the MURATA website (<http://www.murata.com/>) if you cannot find a part number in this catalog.

Product Guide

	Series	Structure	Size Code in inch (in mm)	Inductance Range (H)										Rated Current (A)								
				0.1n	1n	10n	100n	1μ	10μ	100μ	1m	10m	10m	100m	1	10	100					
Inductors for Power Lines	LQM18FN_00	p141	0603 (1608)					1μH		10μH						50mA	150mA					
	LQM18PN_BO	p52	0603 (1608)					1.5μH								600mA						
	LQM18PN_CO	p53	0603 (1608)					470nH		2.2μH						700mA		850mA				
	LQM18PN_DO	p55	0603 (1608)					2.5μH								700mA						
	LQM18PN_DH	p56	0603 (1608)					2.2μH								650mA						
	LQM18PN_FO	p58	0603 (1608)					1μH								600mA						
	LQM18PN_FH	p59	0603 (1608)					470nH		2.2μH						700mA		1.4A				
	LQM18PN_FR	p61	0603 (1608)					220nH		4.7μH						620mA		1.25A				
	LQM18PN_GH	p63	0603 (1608)					1μH		3.3μH						1.05A						
	LQM18PW_CH	p65	0603 (1608)					1μH		2.5μH						750mA		950mA				
	LQM21DN_00	p143	Multilayer Type	0805 (2012)					1μH		4.7μH					7mA	60mA					
	LQM21FN_00	p145		0805 (2012)					1μH		4.7μH					7mA	220mA					
	LQM21FN_70	p147		0805 (2012)					4.7μH		10μH					100mA	120mA					
	LQM21FN_80	p149		0805 (2012)					4.7μH		10μH					100mA	120mA					
	LQM21PN_CO	p67		0805 (2012)					470nH		2.2μH						600mA	1.1A				
	LQM21PN_CA	p69		0805 (2012)					2.2μH								1.05A					
	LQM21PN_CH	p71		0805 (2012)					470nH		2.2μH						1.05A	1.6A				
	LQM21PN_EH	p73		0805 (2012)					240nH		2.2μH						1.1A	2.8A				
	LQM21PN_GO	p75		0805 (2012)					470nH		3.3μH						800mA	1.3A				
	LQM21PN_GC	p77		0805 (2012)					1μH		2.2μH						800mA	900mA				
	LQM21PN_GH	p79		0805 (2012)					470nH		4.7μH						1A	2.4A				
	LQM21PN_GR	p81		0805 (2012)					1μH		4.7μH						800mA	1.3A				
	LQM21PN_GS	p83		0805 (2012)					2.2μH		4.7μH						750mA	950mA				
	LQM2MPN_DH	p102		0806 (2016)					2.2μH								1.27A					
	LQM2MPN_EH	p104		0806 (2016)					240nH		2.2μH						1.1A	4.1A				
	LQM2MPN_GO	p106		0806 (2016)					470nH		4.7μH						1.1A	1.6A				
	LQM2MPN_GH	p108		0806 (2016)					160nH		2.2μH						1.3A	5A				
	LQM2HPN_CH	p85		1008 (2520)					240nH		2.2μH						850mA	2.55A				
	LQM2HPN_EO	p87		1008 (2520)					560nH								1.5A					
	LQM2HPN_EH	p88		1008 (2520)					240nH		2.2μH						1.3A	4.5A				
	LQM2HPN_GO	p90		1008 (2520)					470nH		4.7μH						1.1A	1.8A				
	LQM2HPN_GC	p92		1008 (2520)					1μH		4.7μH						800mA	1.5A				
	LQM2HPN_GH	p94		1008 (2520)					240nH		2.2μH						1.5A	5A				
	LQM2HPN_GS	p96		1008 (2520)					2.2μH		4.7μH						1A	1.1A				
	LQM2HPN_JO	p98		1008 (2520)					1μH		3.3μH						1A	1.5A				
	LQM2HPN_JH	p100		1008 (2520)					470nH		2.2μH						1.5A	3.2A				
	LQM31PN_00	p110		1206 (3216)					470nH		4.7μH						700mA	1.4A				
	LQM32PN_GO	p112		1210 (3225)					1μH								1.8A					
	LQM32PN_GC	p113		1210 (3225)					1μH								2.2A					
	LQW15CN_00	p115		Wire Wound Ferrite Core Type	0402 (1005)				18nH		200nH						390mA	1.4A				
	LQW15CN_10	p117			0402 (1005)					20nH		3.3μH						130mA	2.2A			
	LQW18CN_00	p119			0603 (1608)					4.9nH		650nH						430mA	2.6A			
LQH2MCN_02	p14	0806 (2016)							1μH		82μH						90mA	485mA				
LQH2MCN_52	p16	0806 (2016)							1μH		22μH						130mA	595mA				
LQH2MPN_GR	p18	0806 (2016)							330nH		82μH						210mA	2.2A				
LQH2HPN_GR	p10	1008 (2520)							470nH		100μH						210mA	2.9A				
LQH2HPN_JR	p12	1008 (2520)							470nH		22μH						540mA	3.5A				
DEM2812C	p388	1211 (3028)							470nH		12μH						760mA	3.1A				
DEM2815C	p389	1211 (3028)							470nH		15μH						800mA	3.9A				
DEM2818C	p390	1211 (3028)							470nH		12μH						1A	4.7A				
LQH3NPN_GR	p28	1212 (3030)							470nH		250μH						140mA	2.82A				
LQH3NPN_JR	p30	1212 (3030)							680nH		47μH						570mA	2.86A				
LQH3NPN_ME	p32	1212 (3030)						1μH		100μH						430mA	3A					

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	Series	Structure	Size Code in inch (in mm)	Inductance Range (H)										Rated Current (A)						
				0.1n	1n	10n	100n	1μ	10μ	100μ	1m	10m	10m	100m	1	10	100			
Inductors for Power Lines	LQH3NPN_MR p34	Wire Wound Ferrite Core Type	1212 (3030)					1μH									460mA			2.15A
	LQH31CN_03 p121		1206 (3216)				120nH										80mA			970mA
	LQH32CN_23 p123		1210 (3225)					1μH									60mA			800mA
	LQH32CN_33 p125		1210 (3225)				150nH										450mA			1.45A
	LQH32CN_53 p127		1210 (3225)					1μH									100mA			1A
	LQH32DN_23 p129		1210 (3225)					1μH									60mA			800mA
	LQH32DN_53 p131		1210 (3225)					1μH									100mA			1A
	LQH32PB_N0 p20		1210 (3225)					470nH									200mA			3.4A
	LQH32PB_NC p22		1210 (3225)					470nH									650mA			4.4A
	LQH32PN_N0 p24		1210 (3225)					470nH									200mA			3.4A
	LQH32PN_NC p26		1210 (3225)					470nH									650mA			4.4A
	DEM3512C p391		1514 (3735)					680nH									530mA			2.5A
	DEM3518C p392		1514 (3735)					560nH									880mA			3.4A
	LQH44PN_GR p40		1515 (4040)					680nH									410mA			2.5A
	LQH44PN_J0 p42		1515 (4040)					1μH									380mA			2A
	LQH44PN_P0 p44		1515 (4040)					1μH									800mA			2.95A
	LQH43CN_03 p133		1812 (4532)					1μH									90mA			1.08A
	LQH43CN_33 p135		1812 (4532)					560nH									1.6A			2.95A
	LQH43PB_26 p36		1812 (4532)					1μH									240mA			3.4A
	LQH43PN_26 p38		1812 (4532)					1μH									240mA			3.4A
	DEM4518C p393		1818 (4745)					1.2μH									1A			3.5A
	LQH5BPB_T0 p46		2020 (5050)					470nH									1.4A			7.7A
	LQH5BPN_38 p48		2020 (5050)					1μH									650mA			7A
	LQH5BPN_T0 p50		2020 (5050)					470nH									1.4A			7.7A
	D52LC p394		2020 (5252)					1.2μH									260mA			2.44A
	D53LC High Current p395		2020 (5252)					1.1μH									460mA			3.87A
	D53LC Low Rdc p396		2020 (5252)					4.7μH									350mA			2.31A
	LQH55DN_03 p137		2220 (5750)					120nH							10mH		50mA			6A
	DG6045C p399		2424 (6060)					1μH									900mA			9.5A
	DG6050C p401		2424 (6060)					1.2μH									1.2A			9.8A
	D63LCB p397		2524 (6362)					1μH									440mA			4.52A
	LQH66SN_03 p139		2525 (6363)					270nH							10mH		50mA			6A
	DS75LC p402		2929 (7373)					1μH									430mA			9.2A
	DEM8030C p405		3131 (8080)					1.5μH									1.3A			7.5A
	DEM8040C p406		3131 (8080)					1.5μH									2.4A			10A
	DEM8045C p407		3131 (8080)					1.5μH									2.1A			11.2A
	DG8040C p404		3131 (8080)					1μH									1.3A			10.4A
	DEM10050C p408		3939 (100100)					1.5μH									3.5A			15.3A
	DS104C2 p409		4040 (101101)					1.1μH									970mA			11.7A
	DS106C2 p411		4040 (101101)					1.2μH									690mA			12A
DS126C2 p413	4949 (125125)					1.7μH									580mA			11.8A		
DFE201208S p302	0805 (2012)	Wire Wound Metal Alloy Core Type						470nH									1.8A		4A	
DFE201210S p304	0805 (2012)						470nH										2.1A		4.8A	
DFE201210U p340	0805 (2012)						240nH										2A		6.5A	
DFE201610C p306	0806 (2016)						560nH										1.5A		2.8A	
DFE201610E p336	0806 (2016)						240nH										1A		6.3A	
DFE201610P p328	0806 (2016)						240nH										2A		5.4A	
DFE201610R p320	0806 (2016)						470nH										1.6A		3A	
DFE201612C p308	0806 (2016)						470nH										1.6A		3.4A	
DFE201612E p338	0806 (2016)						330nH										1.8A		6.3A	
DFE201612P p330	0806 (2016)						240nH										2.1A		6.5A	
DFE201612R p322	0806 (2016)						470nH										1.7A		3.5A	
DFE252007F p342	1008 (2520)						470nH										1.2A		3.3A	

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	Series	Structure	Size Code in inch (in mm)	Inductance Range (H)										Rated Current (A)						
				0.1n	1n	10n	100n	1μ	10μ	100μ	1m	10m	10m	100m	1	10	100			
Inductors for Power Lines	DFE252008C	p310	1008 (2520)					470nH	4.7μH									1.1A	3A	
	DFE252010C	p312	1008 (2520)					470nH	10μH									1A	3.5A	
	DFE252010F	p344	1008 (2520)					330nH	10μH									1.3A	6.8A	
	DFE252010P	p332	1008 (2520)					330nH	4.7μH									1.7A	5.7A	
	DFE252010R	p324	1008 (2520)					1μH	4.7μH									1.4A	3A	
	DFE252012C	p314	1008 (2520)					470nH	10μH									1A	3.8A	
	DFE252012F	p346	1008 (2520)					330nH	10μH									1.4A	7.6A	
	DFE252012P	p334	1008 (2520)					330nH	4.7μH									2A	6.6A	
	DFE252012R	p326	1008 (2520)					1μH	4.7μH									1.7A	3.4A	
	DFE322510C	p316	1210 (3225)					470nH	10μH									1A	3.8A	
	DFE322512C	p318	1210 (3225)					470nH	10μH									1.2A	4.7A	
	DFE322512F	p348	1210 (3225)					470nH	10μH									1.7A	6.7A	
	FDS0412	p350	1515 (4040)					330nH	4.7μH									2.5A	7.5A	
	FDS0415	p352	1515 (4040)					220nH	4.7μH									2.9A	12A	
	FDS0420	p354	1515 (4040)					330nH	10μH									2.5A	11A	
	FDS0512	p356	2019 (5249)					1μH	6.8μH									2.3A	6.1A	
	FDS0515	p358	2019 (5249)					1μH	4.7μH									3.2A	7A	
	FDS0518	p360	2019 (5249)					680nH	10μH									2.7A	9A	
	FDV0530	p364	2423 (6258)					110nH	4.7μH									3.6A	19.6A	
	FCUL0530	p378	2322 (5857)					360nH	470nH									16A	18A	
	FCUL0624	p380	2926 (7366)					220nH	470nH									17A	24A	
	FCUL0630	p382	2926 (7366)					120nH	680nH									15A	32A	
	FDUE0640	p369	3026 (7667)					150nH	420nH									22A	33A	
	FDUE0650	p370	3026 (7667)					600nH	1μH									16A	18A	
	FDV0618	p365	2926 (7467)					240nH	3.3μH									4.1A	14A	
	FDV0620	p366	2926 (7467)					200nH	4.7μH									3.5A	16.2A	
	FDVE0630	p367	2926 (7467)					160nH	10μH									3.1A	20.7A	
	FDS0630	p362	2726 (7066)					680nH	10μH									5.4A	17A	
	FCUL1040	p384	4540 (115100)					180nH	420nH									34A	53A	
	FCUL1060	p386	4640 (116100)					360nH	560nH									34A	41A	
FDUE1040D	p371	4440 (112100)					220nH	1μH									18A	32A		
FDVE1040	p368	4440 (112100)					1.5μH	10μH									6.1A	14.6A		
FDA1055	p375	4242 (108108)					560nH	5.6μH									8A	27.7A		
FDUE1245	p372	4848 (123121)					500nH	2.2μH									17A	30A		
FDA1254	p377	5049 (126125)					680nH	8μH									9.1A	29.1A		
FDUE1260	p373	5650 (143127)					450nH										42A			
Inductors for General Circuits	LQB15NN_10	p165	0402 (1005)					220nH	560nH								300mA	380mA		
	LQB18NN_10	p167	0603 (1608)					220nH	560nH								300mA	450mA		
	LQM18NN_00	p183	0603 (1608)					47nH	2.2μH								15mA	50mA		
	LQM21NN_10	p185	0805 (2012)					100nH	4.7μH								30mA	250mA		
	LLB2520	p422	1008 (2520)					1μH	47μH								100mA	480mA		
	LLM2520	p423	1008 (2520)					100nH	220μH								44mA	570mA		
	LQH31HN_03	p169	1206 (3216)					54nH	880nH								180mA	920mA		
	LQH31MN_03	p171	1206 (3216)					150nH	100μH								45mA	250mA		
	LLM3225	p425	1210 (3225)					100nH	1mH								19mA	600mA		
	LQH32MN_23	p173	1210 (3225)					1μH	560μH								40mA	445mA		
	LQH44NN_03	p181	1515 (4040)					510nH	470μH								145mA	4.5A		
	LQH43MN_03	p175	1812 (4532)					1μH	1.5mH								40mA	500mA		
	LQH43NN_03	p178	1812 (4532)					1μH	2.4mH								25mA	500mA		
	LQW04CA_00	p187	03019 (0805)					60nH	510nH								200mA	620mA		
LQW15CA_00	p188	0402 (1005)					22nH	2μH								130mA	1.3A			

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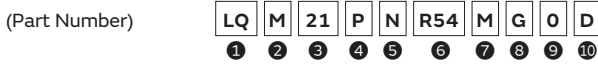
	Series	Structure	Size Code in inch (in mm)	Inductance Range (H)										Rated Current (A)						
				0.1n	1n	10n	100n	1μ	10μ	100μ	1m	10m	10m	100m	1	10	100			
RF Inductors	LQG15HN_02 p201	Multilayer Type	0402 (1005)	1nH	120nH											150mA	1A			
	LQG15HS_02 p204		0402 (1005)	1nH	270nH												110mA	1A		
	LQG18HN_00 p208		0603 (1608)	1.2nH	100nH												350mA	1.1A		
	LQW21HN_00 p289	Wire Wound Ferrite Core Type	0805 (2012)			470nH		2.2μH								75mA	160mA			
	LQP02HQ_02 p210	Film Type	01005 (0402)	0.2nH	56nH											100mA	1A			
	LQP02TN_02 p214		01005 (0402)	0.2nH	39nH												90mA	320mA		
	LQP02TQ_02 p218		01005 (0402)	0.2nH	22nH												120mA	990mA		
	LQP03HQ_02 p221		0201 (0603)	0.6nH	150nH												80mA	1.1A		
	LQP03PN_02 p225		0201 (0603)	2.2nH	4.7nH												900mA	1.4A		
	LQP03TG_02 p227		0201 (0603)	0.1nH	120nH												80mA	850mA		
	LQP03TN_02 p231		0201 (0603)	0.6nH	270nH												60mA	850mA		
	LQP03TQ_02 p235		0201 (0603)	0.6nH	13nH												250mA	1A		
	LQP15MN_02 p238		0402 (1005)	1nH	33nH												60mA	400mA		
	LQP18MN_02 p240		0603 (1608)	1.3nH	100nH												50mA	300mA		
	LQW03AW_00 p242		Wire Wound Non-Magnetic Core Type	0201 (0603)	1nH	15.5nH											230mA	900mA		
	LQW04AN_00 p244			03015 (0804)	0.8nH	33nH												140mA	1.8A	
	LQW04AN_10 p249	03015 (0804)			36nH		56nH										180mA	200mA		
	LQW15AN_00 p250	0402 (1005)		1.5nH	120nH												110mA	1A		
	LQW15AN_10 p256	0402 (1005)		1.3nH	8.4nH												640mA	1.2A		
	LQW15AN_80 p258	0402 (1005)		1.3nH	75nH												320mA	3.15A		
	LQW18AN_00 p265	0603 (1608)		2.2nH	470nH												75mA	850mA		
	LQW18AN_10 p268	0603 (1608)		2.2nH	33nH												550mA	1.4A		
	LQW18AN_80 p270	0603 (1608)		2.2nH	390nH												190mA	3.2A		
	LQW18AS_00 p275	0603 (1608)		1.6nH	390nH												100mA	700mA		
	LQW2BAN_00 p278	0805 (2015)		3.2nH	200nH												750mA	3.8A		
	LQW2BAS_00 p281	0805 (2015)		2.8nH	820nH												180mA	800mA		
	LQW2BHN_03 p283	0805 (2015)		3.3nH	470nH												160mA	1.32A		
	LQW2BHN_13 p285	0805 (2015)		2.7nH	27nH												900mA	1.9A		
	LQW2UAS_00 p286	1008 (2520)			12nH		4.7μH										260mA	1A		
	LQW31HN_03 p290	1206 (3216)			8.8nH		100nH										230mA	750mA		

Inductors for Power Lines

Part Numbering	p8
Product Detail	p10
⚠Caution/Notice	p151
Soldering and Mounting	p153
Packaging	p158

● Part Numbering

Inductors for Power Lines



① Product ID

Product ID	
LQ	Chip Inductors (Chip Coils)

② Structure

Code	Structure
H	Wire Wound Type (Ferrite Core)
W	
M	Multilayer Type (Ferrite Core)

③ Dimensions (LxW)

Code	Nominal Dimensions (LxW)	Size Code (in inch)
15	1.0x0.5mm	0402
18	1.6x0.8mm	0603
21	2.0x1.25mm	0805
2M	2.0x1.6mm	0806
2H	2.5x2.0mm	1008
3N	3.0x3.0mm	1212
31	3.2x1.6mm	1206
32	3.2x2.5mm	1210
43	4.5x3.2mm	1812
44	4.0x4.0mm	1515
5B	5.0x5.0mm	2020
55	5.7x5.0mm	2220
66	6.3x6.3mm	2525

④ Applications and Characteristics

Code	Series	Applications and Characteristics
D	LQM	for Choke (Low-current DC Power Supplies)
F		for Choke (DC Power Supplies)
D	LQH	for Choke
S		for Choke (Magnetically Shielded Type)
C	LQH/LQW	for Choke (Coating Type)
P	LQM/LQH	for Power Line

⑤ Category

Code	Category
N	Standard Type
B	Special Feature Classification
W	

⑥ Inductance

Expressed by three-digit alphanumerics. The unit is micro-henry (μH). The first and second figures are significant digits, and the third figure expresses the number of zeros that follow the two figures. If there is a decimal point, it is expressed by the capital letter "R." In this case, all figures are significant digits. If inductance is less than $0.1\mu\text{H}$, the inductance code is expressed by a combination of two figures and the capital letter "N," and the unit of inductance is nano-henry (nH). The capital letter "N" indicates the unit of "nH," and also expresses a decimal point. In this case, all figures are significant digits. For those products whose inductance values are specified using three designated digits, these values may be indicated using the closest two digits instead.

⑦ Inductance Tolerance

Code	Inductance Tolerance
D	$\pm 0.5\text{nH}$
J	$\pm 5\%$
K	$\pm 10\%$
M	$\pm 20\%$
N	$\pm 30\%$

⑧ Features (Except for LQH□□P/LQM□□P)

Code	Features	Series
0	Standard Type	LQM/LQH*1 /LQW
1	Low DC Resistance	LQW
2	Standard Type	LQH32C/32D
3	Low DC Resistance	LQH32C/43CN
5	Low Profile Type	LQH2MC/32C/32D
7	Large Current Type	LQM21F
8	Low DC Resistance /Large Current Type	

*1 Except for LQH32 Series

⑨ Thickness

(LQH□□P/LQM□□P Only • Except for LQH43P/LQH5BPN_38)

Code	Nominal Dimensions (T)
B	0.35mm
C	0.5mm
D	0.6mm
E	0.7mm
F	0.8mm
O	0.85mm
G	0.9mm
J	1.1mm
M	1.4mm
N	1.55mm
P	1.65mm
T	2.0mm

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⑨ Electrode (Except for LQH□□P/LQM□□P)

•Lead (Pb) Free

Code	Electrode	Series
0	Sn	LQM/LQW
2		LQH2MC
3	LF Solder	LQH (Except for LQH2MC)

⑨ Specification

(LQH□□P/LQM□□P Only • Except for LQH43P/LQH5BPN_38)

Code	Specification
0/S	Standard Type
C	Good Bias Current Characteristics Type
H/A/E	High Spec Type (Low DC Resistance; Good Bias Current Characteristics Type)
R	Low DC Resistance Type

⑨ Thickness (LQH43P/LQH5BPN_38 Only)

Code	Dimensions (T)
26	2.6mm
38	4.0mm max.

⑩ Packaging

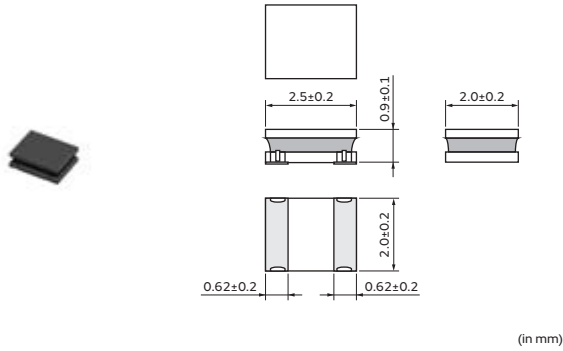
Code	Packaging	Series
K	Embossed Taping (ø330mm Reel)	LQH* ¹ /LQM21* ²
F		LQH3NP_MR
L	Embossed Taping (ø180mm Reel)	LQH* ⁵ /LQM18P/LQM21* ² /LQM31P/LQM32P/LQM2HP/LQM2MP
E		LQH3NP_MR
B	Bulk	LQH2MC/LQM/LQW
J	Paper Taping (ø330mm Reel)	LQM18/LQM21* ³
D	Paper Taping (ø180mm Reel)	LQM18/LQM21* ⁴ /LQW

*1 Except for LQH2MC/LQH2HP_G0/LQH3NP/LQH43C
 *2 LQM21D(22 - 47μH)/LQM21F(4.7 - 47μH)
 *3 LQM21D(1.0 - 10μH)/LQM21F(1.0 - 2.2μH)
 *4 LQM21D(1.0 - 10μH)/LQM21F(1.0 - 2.2μH)/LQM21P
 *5 Except for LQH3NP_MR

Inductors for Power Lines

LQH2HPN_GR Series 1008 (2520) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	3000

Rated Value (□: packaging code)

Part Number	Inductance	Inductance Test Frequency	Rated Current (Isat)*	Rated Current (Itemp)*	DC Resistance	S.R.F.* (min.)	Operating temp. range (Self-temp. rise included)	Operating temp. range (Self-temp. rise not included)	Remark
LQH2HPNR47MGR□	0.47µH ±20%	1MHz	2900mA	2520mA(Ambient temp.85°C) 1470mA(Ambient temp.105°C)	0.045Ω±20%	120MHz	-40 to 125°C	-40 to 105°C	*1
LQH2HPNR68MGR□	0.68µH ±20%	1MHz	2430mA	2330mA(Ambient temp.85°C) 1350mA(Ambient temp.105°C)	0.055Ω±20%	110MHz	-40 to 125°C	-40 to 105°C	*1
LQH2HPN1R0MGR□	1.0µH ±20%	1MHz	2130mA	2100mA(Ambient temp.85°C) 1200mA(Ambient temp.105°C)	0.068Ω±20%	100MHz	-40 to 125°C	-40 to 105°C	*1
LQH2HPN1R5MGR□	1.5µH ±20%	1MHz	1700mA	1850mA(Ambient temp.85°C) 1110mA(Ambient temp.105°C)	0.087Ω±20%	90MHz	-40 to 125°C	-40 to 105°C	*1
LQH2HPN2R2MGR□	2.2µH ±20%	1MHz	1550mA	1470mA(Ambient temp.85°C) 850mA(Ambient temp.105°C)	0.134Ω±20%	80MHz	-40 to 125°C	-40 to 105°C	*1
LQH2HPN3R3MGR□	3.3µH ±20%	1MHz	1230mA	1100mA(Ambient temp.85°C) 660mA(Ambient temp.105°C)	0.225Ω±20%	70MHz	-40 to 125°C	-40 to 105°C	*1
LQH2HPN4R7MGR□	4.7µH ±20%	1MHz	1090mA	1000mA(Ambient temp.85°C) 570mA(Ambient temp.105°C)	0.300Ω±20%	50MHz	-40 to 125°C	-40 to 105°C	*1
LQH2HPN6R8MGR□	6.8µH ±20%	1MHz	830mA	860mA(Ambient temp.85°C) 490mA(Ambient temp.105°C)	0.395Ω±20%	40MHz	-40 to 125°C	-40 to 105°C	*1
LQH2HPN100MGR□	10µH ±20%	1MHz	700mA	710mA(Ambient temp.85°C) 430mA(Ambient temp.105°C)	0.560Ω±20%	30MHz	-40 to 125°C	-40 to 105°C	*1
LQH2HPN150MGR□	15µH ±20%	1MHz	570mA	560mA(Ambient temp.85°C) 310mA(Ambient temp.105°C)	0.925Ω±20%	20MHz	-40 to 125°C	-40 to 105°C	*1
LQH2HPN220MGR□	22µH ±20%	1MHz	460mA	430mA(Ambient temp.85°C) 250mA(Ambient temp.105°C)	1.360Ω±20%	15MHz	-40 to 125°C	-40 to 105°C	*1
LQH2HPN101MGR□	100µH ±20%	1MHz	210mA	150mA(Ambient temp.85°C)	5.9Ω±20%	5MHz	-40 to 105°C	-40 to 85°C	*2

Class of Magnetic Shield: Magnetic Resin

For reflow soldering only

*Isat: Rated Current based on Inductance change

*Itemp: Rated Current based on Temperature rise

*S.R.F.: Self-Resonant Frequency

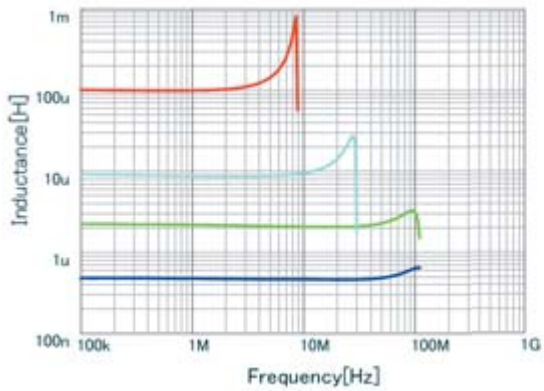
*1: When rated current is applied to the products, inductance will be within ±30% of initial inductance value range. Keep the temperature (ambient temperature plus self-generation of heat) under 125°C. When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°C (at the rated current under 85°C) or 20°C (at the rated current under 105°C).

*2: When rated current is applied to the products, inductance will be within ±30% of initial inductance value range. Keep the temperature (ambient temperature plus self-generation of heat) under 105°C. When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 20°C.

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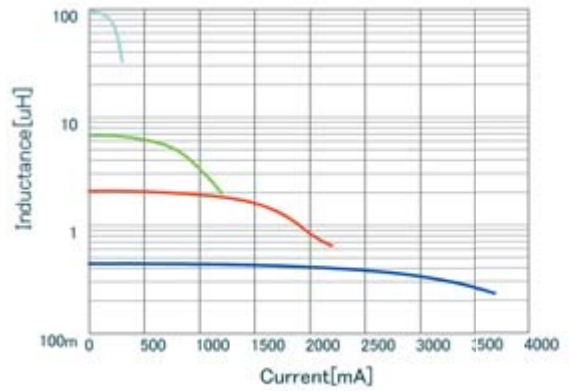
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Inductance-Frequency Characteristics (Typ.)



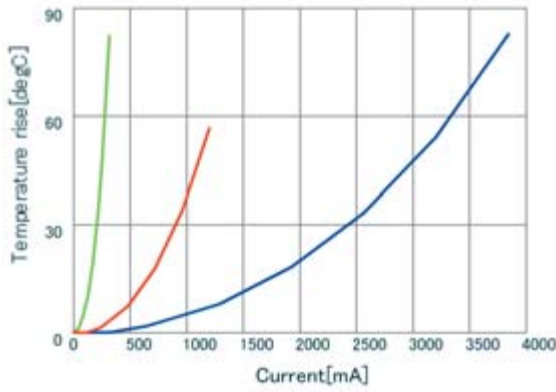
■	LQH2HPNR47MGR L
■	LQH2HPN2R2MGR L
■	LQH2HPN101MGR L
■	LQH2HPN100MGR L

Inductance-Current Characteristics (Typ.)



■	LQH2HPNR47MGR DC-Bias, 20
■	LQH2HPN6R8MGR DC-Bias, 20
■	LQH2HPN2R2MGR DC-Bias, 20
■	LQH2HPN101MGR DC-Bias, 20

Temperature Rise Characteristics (Typ.)

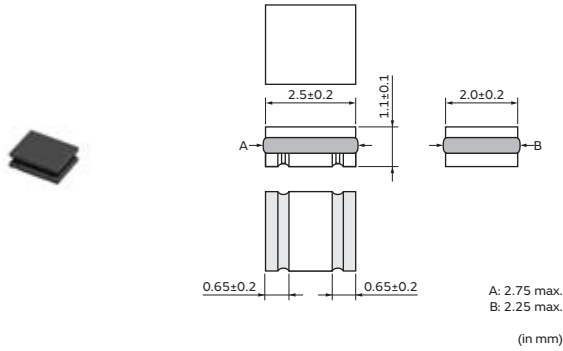


■	LQH2HPNR47MGR DT_Current
■	LQH2HPN101MGR DT_Current
■	LQH2HPN4R7MGR DT_Current

Inductors for Power Lines

LQH2HPN_JR Series 1008 (2520) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	2000

Rated Value (□: packaging code)

Part Number	Inductance	Inductance Test Frequency	Rated Current (I _{sat})*	Rated Current (I _{temp})*	DC Resistance	S.R.F.* (min.)
LQH2HPNR47NJR□	0.47μH ±30%	1MHz	3500mA	2750mA(Ambient temp.85°C) 1650mA(Ambient temp.105°C)	0.031Ω±20%	190MHz
LQH2HPN1R0NJR□	1.0μH ±30%	1MHz	2600mA	2400mA(Ambient temp.85°C) 1440mA(Ambient temp.105°C)	0.048Ω±20%	120MHz
LQH2HPN1R2NJR□	1.2μH ±30%	1MHz	2450mA	2070mA(Ambient temp.85°C) 1240mA(Ambient temp.105°C)	0.055Ω±20%	100MHz
LQH2HPN1R5NJR□	1.5μH ±30%	1MHz	2200mA	1810mA(Ambient temp.85°C) 1080mA(Ambient temp.105°C)	0.075Ω±20%	95MHz
LQH2HPN2R2MJR□	2.2μH ±20%	1MHz	1700mA	1650mA(Ambient temp.85°C) 990mA(Ambient temp.105°C)	0.092Ω±20%	50MHz
LQH2HPN3R3MJR□	3.3μH ±20%	1MHz	1450mA	1420mA(Ambient temp.85°C) 850mA(Ambient temp.105°C)	0.13Ω±20%	45MHz
LQH2HPN4R7MJR□	4.7μH ±20%	1MHz	1230mA	1290mA(Ambient temp.85°C) 770mA(Ambient temp.105°C)	0.17Ω±20%	40MHz
LQH2HPN6R8MJR□	6.8μH ±20%	1MHz	1050mA	1000mA(Ambient temp.85°C) 600mA(Ambient temp.105°C)	0.26Ω±20%	35MHz
LQH2HPN100MJR□	10μH ±20%	1MHz	830mA	830mA(Ambient temp.85°C) 490mA(Ambient temp.105°C)	0.38Ω±20%	30MHz
LQH2HPN150MJR□	15μH ±20%	1MHz	690mA	710mA(Ambient temp.85°C) 420mA(Ambient temp.105°C)	0.55Ω±20%	20MHz
LQH2HPN220MJR□	22μH ±20%	1MHz	530mA	540mA(Ambient temp.85°C) 320mA(Ambient temp.105°C)	0.84Ω±20%	20MHz

Operating temp. range (Self-temp. rise included): -40 to 125°C

Operating temp. range (Self-temp. rise not included): -40 to 105°C

Class of Magnetic Shield: Magnetic Resin

For reflow soldering only

*I_{sat}: Rated Current based on Inductance change

*I_{temp}: Rated Current based on Temperature rise

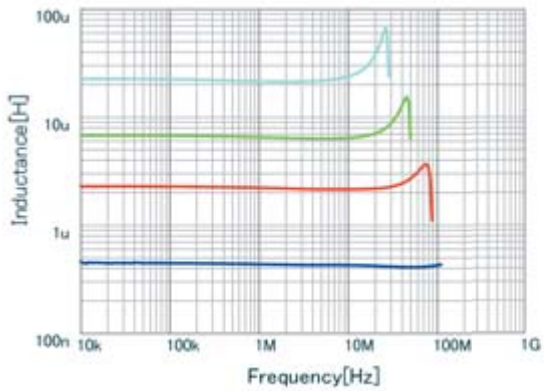
*S.R.F.: Self-Resonant Frequency

When rated current is applied to the products, inductance will be within ±30% of initial inductance value range. Keep the temperature (ambient temperature plus self-generation of heat) under 125°C. When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°C max (ambient temperature 85°C). When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 20°C max (ambient temperature 85-105°C).

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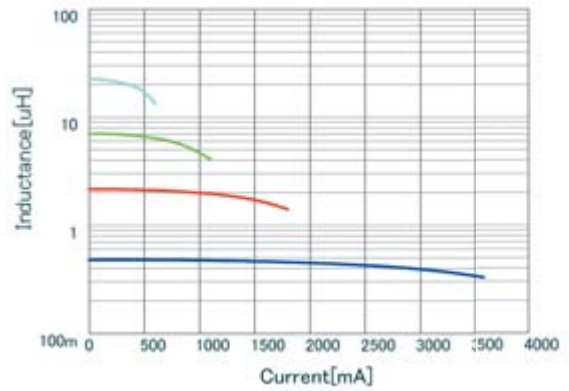
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Inductance-Frequency Characteristics (Typ.)



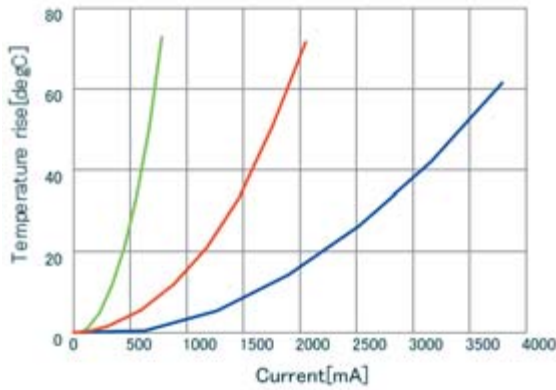
■	LQH2HPNR47NJR L
■	LQH2HPN6R8MJR L
■	LQH2HPN2R2MJR L
■	LQH2HPN220MJR L

Inductance-Current Characteristics (Typ.)



■	LQH2HPNR47NJR DC-Bias, 20
■	LQH2HPN6R8MJR DC-Bias, 20
■	LQH2HPN2R2MJR DC-Bias, 20
■	LQH2HPN220MJR DC-Bias, 20

Temperature Rise Characteristics (Typ.)

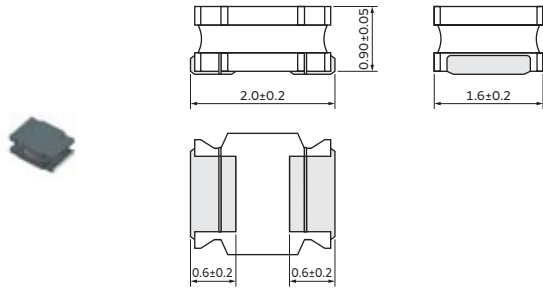


■	LQH2HPNR47NJR DT_Current
■	LQH2HPN220MJR DT_Current
■	LQH2HPN3R3MJR DT_Current

Inductors for Power Lines

LQH2MCN_02 Series 0806 (2016) inch (mm)

Appearance/Dimensions



(in mm)

Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	3000
B	Packing in Bulk	100

Rated Value (□: packaging code)

Part Number	Inductance	Inductance Test Frequency	Rated Current	DC Resistance	S.R.F.* (min.)
LQH2MCN1R0M02□	1.0μH ±20%	1MHz	485mA	0.30Ω±30%	100MHz
LQH2MCN1R5M02□	1.5μH ±20%	1MHz	445mA	0.40Ω±30%	95MHz
LQH2MCN2R2M02□	2.2μH ±20%	1MHz	425mA	0.48Ω±30%	70MHz
LQH2MCN3R3M02□	3.3μH ±20%	1MHz	375mA	0.60Ω±30%	65MHz
LQH2MCN4R7M02□	4.7μH ±20%	1MHz	300mA	0.8Ω±30%	60MHz
LQH2MCN5R6M02□	5.6μH ±20%	1MHz	280mA	0.9Ω±30%	60MHz
LQH2MCN6R8M02□	6.8μH ±20%	1MHz	255mA	1.0Ω±30%	55MHz
LQH2MCN8R2M02□	8.2μH ±20%	1MHz	235mA	1.1Ω±30%	50MHz
LQH2MCN100K02□	10μH ±10%	1MHz	225mA	1.2Ω±30%	48MHz
LQH2MCN120K02□	12μH ±10%	1MHz	210mA	1.4Ω±30%	44MHz
LQH2MCN150K02□	15μH ±10%	1MHz	200mA	1.6Ω±30%	40MHz
LQH2MCN180K02□	18μH ±10%	1MHz	190mA	1.8Ω±30%	35MHz
LQH2MCN220K02□	22μH ±10%	1MHz	185mA	2.1Ω±30%	30MHz
LQH2MCN270K02□	27μH ±10%	1MHz	180mA	2.5Ω±30%	30MHz
LQH2MCN330K02□	33μH ±10%	1MHz	160mA	2.8Ω±30%	28MHz
LQH2MCN390K02□	39μH ±10%	1MHz	125mA	4.4Ω±30%	24MHz
LQH2MCN470K02□	47μH ±10%	1MHz	120mA	5.1Ω±30%	18MHz
LQH2MCN560K02□	56μH ±10%	1MHz	110mA	5.7Ω±30%	17MHz
LQH2MCN680K02□	68μH ±10%	1MHz	100mA	6.6Ω±30%	14MHz
LQH2MCN820K02□	82μH ±10%	1MHz	90mA	7.5Ω±30%	14MHz

Operating temp. range (Self-temp. rise not included): -40 to 85°C

Class of Magnetic Shield: No Shield

For reflow soldering only

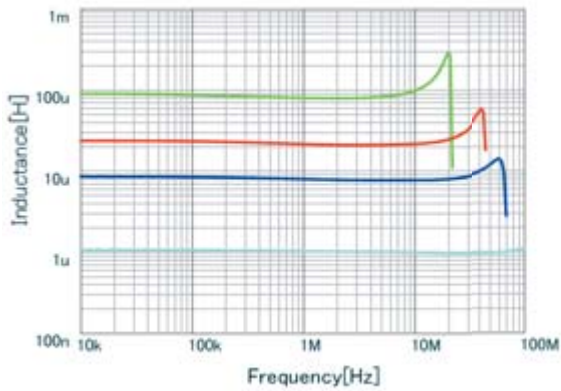
*S.R.F.: Self-Resonant Frequency

When rated current is applied to the products, inductance will be within ±10% of initial inductance value. When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°C max.

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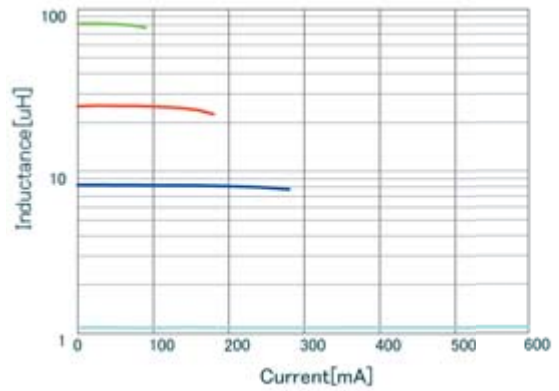
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Inductance-Frequency Characteristics (Typ.)



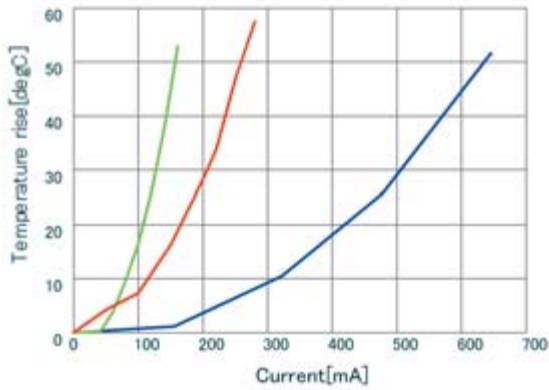
■	LQH2MCN8R2M02	L
■	LQH2MCN820K02	L
■	LQH2MCN220K02	L
■	LQH2MCN1R0M02	L

Inductance-Current Characteristics (Typ.)



■	LQH2MCN8R2M02	DC-Bias, 20
■	LQH2MCN820K02	DC-Bias, 20
■	LQH2MCN270K02	DC-Bias, 20
■	LQH2MCN1R0M02	DC-Bias, 20

Temperature Rise Characteristics (Typ.)

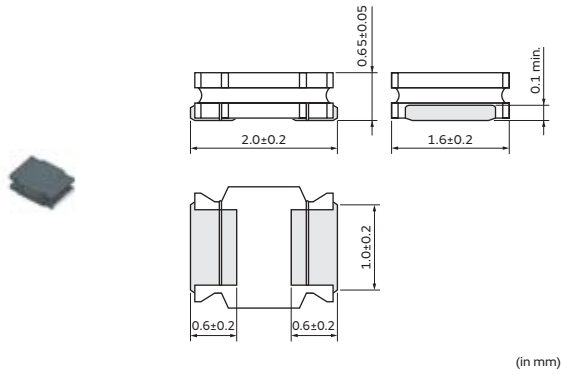


■	LQH2MCN1R0M02	DT_Current
■	LQH2MCN470K02	DT_Current
■	LQH2MCN100K02	DT_Current

Inductors for Power Lines

LQH2MCN_52 Series 0806 (2016) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	3000
B	Packing in Bulk	100

Rated Value (□: packaging code)

Part Number	Inductance	Inductance Test Frequency	Rated Current	DC Resistance	S.R.F.* (min.)
LQH2MCN1R0M52□	1.0μH ±20%	1MHz	595mA	0.25Ω±30%	215MHz
LQH2MCN1R5M52□	1.5μH ±20%	1MHz	540mA	0.33Ω±30%	165MHz
LQH2MCN2R2M52□	2.2μH ±20%	1MHz	500mA	0.42Ω±30%	125MHz
LQH2MCN3R3M52□	3.3μH ±20%	1MHz	360mA	0.74Ω±30%	110MHz
LQH2MCN4R7M52□	4.7μH ±20%	1MHz	335mA	0.91Ω±30%	90MHz
LQH2MCN6R8M52□	6.8μH ±20%	1MHz	285mA	1.23Ω±30%	65MHz
LQH2MCN100M52□	10μH ±20%	1MHz	200mA	2.27Ω±30%	60MHz
LQH2MCN120M52□	12μH ±20%	1MHz	170mA	2.4Ω±30%	30MHz
LQH2MCN150M52□	15μH ±20%	1MHz	150mA	3.5Ω±30%	30MHz
LQH2MCN180M52□	18μH ±20%	1MHz	140mA	4.0Ω±30%	30MHz
LQH2MCN220M52□	22μH ±20%	1MHz	130mA	5.5Ω±30%	30MHz

Operating temp. range (Self-temp. rise not included): -40 to 85°C

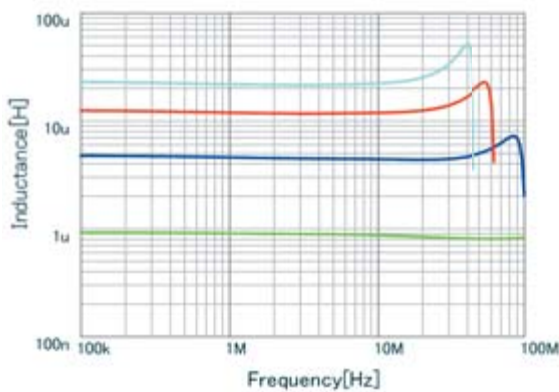
Class of Magnetic Shield: No Shield

For reflow soldering only

*S.R.F.: Self-Resonant Frequency

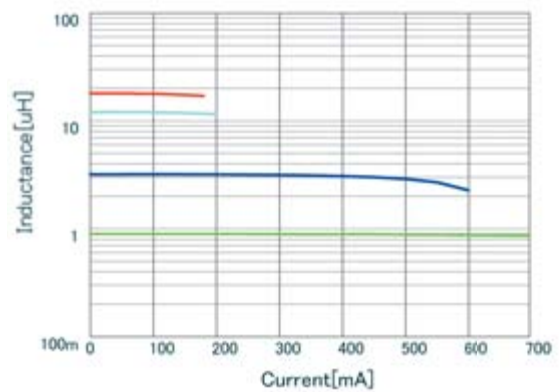
When rated current is applied to the products, inductance will be within ±10% of initial inductance value. When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°C max.

Inductance-Frequency Characteristics (Typ.)



■	LQH2MCN4R7M52 L
■	LQH2MCN1R0M52 L
■	LQH2MCN120M52 L
■	LQH2MCN220M52 L

Inductance-Current Characteristics (Typ.)

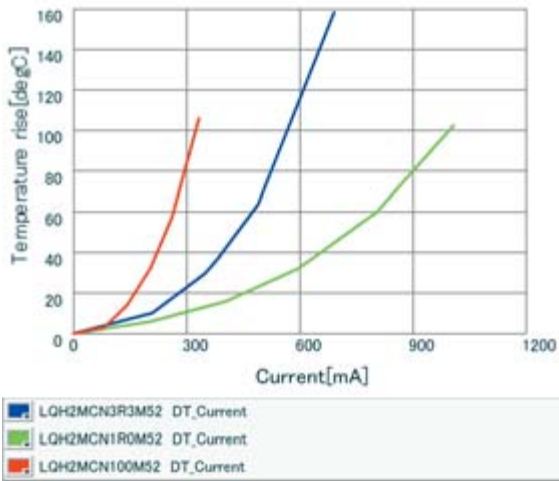


■	LQH2MCN3R3M52 DC-Bias, 20
■	LQH2MCN1R0M52 DC-Bias, 20
■	LQH2MCN180M52 DC-Bias, 20
■	LQH2MCN120M52 DC-Bias, 20

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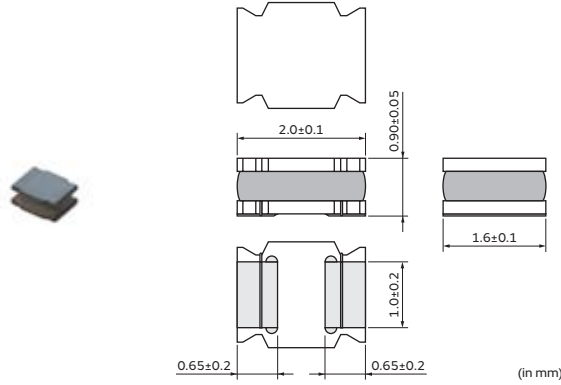
Temperature Rise Characteristics (Typ.)



Inductors for Power Lines

LQH2MPN_GR Series 0806 (2016) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
L	ø180mm Embossed Taping	3000

Rated Value (□: packaging code)

Part Number	Inductance	Inductance Test Frequency	Rated Current (I _{sat})*	Rated Current (I _{temp})*	DC Resistance	S.R.F.* (min.)
LQH2MPNR33NGR□	0.33μH ±30%	1MHz	2200mA	1130mA(Ambient temp.85°C) 670mA(Ambient temp.105°C)	0.15Ω±20%	130MHz
LQH2MPNR47NGR□	0.47μH ±30%	1MHz	1950mA	1060mA(Ambient temp.85°C) 630mA(Ambient temp.105°C)	0.18Ω±20%	120MHz
LQH2MPN1R0NGR□	1.0μH ±30%	1MHz	1550mA	900mA(Ambient temp.85°C) 540mA(Ambient temp.105°C)	0.25Ω±20%	100MHz
LQH2MPN1R5NGR□	1.5μH ±30%	1MHz	1330mA	790mA(Ambient temp.85°C) 470mA(Ambient temp.105°C)	0.32Ω±20%	60MHz
LQH2MPN2R2MGR□	2.2μH ±20%	1MHz	1180mA	680mA(Ambient temp.85°C) 400mA(Ambient temp.105°C)	0.39Ω±20%	50MHz
LQH2MPN3R3MGR□	3.3μH ±20%	1MHz	1020mA	640mA(Ambient temp.85°C) 380mA(Ambient temp.105°C)	0.47Ω±20%	45MHz
LQH2MPN4R7MGR□	4.7μH ±20%	1MHz	870mA	580mA(Ambient temp.85°C) 340mA(Ambient temp.105°C)	0.60Ω±20%	40MHz
LQH2MPN6R8MGR□	6.8μH ±20%	1MHz	730mA	530mA(Ambient temp.85°C) 310mA(Ambient temp.105°C)	0.72Ω±20%	35MHz
LQH2MPN100MGR□	10μH ±20%	1MHz	610mA	480mA(Ambient temp.85°C) 280mA(Ambient temp.105°C)	0.88Ω±20%	30MHz
LQH2MPN150MGR□	15μH ±20%	1MHz	490mA	340mA(Ambient temp.85°C) 200mA(Ambient temp.105°C)	1.7Ω±20%	25MHz
LQH2MPN220MGR□	22μH ±20%	1MHz	410mA	290mA(Ambient temp.85°C) 170mA(Ambient temp.105°C)	2.1Ω±20%	20MHz
LQH2MPN330MGR□	33μH ±20%	1MHz	310mA	200mA(Ambient temp.85°C) 120mA(Ambient temp.105°C)	4.3Ω±20%	15MHz
LQH2MPN470MGR□	47μH ±20%	1MHz	270mA	180mA(Ambient temp.85°C) 110mA(Ambient temp.105°C)	5.3Ω±20%	10MHz

Operating temp. range (Self-temp. rise included): -40 to 125°C
 Operating temp. range (Self-temp. rise not included): -40 to 105°C
 Class of Magnetic Shield: Ferrite Core
 For reflow soldering only

*I_{sat}: Rated Current based on Inductance change
 *I_{temp}: Rated Current based on Temperature rise
 *S.R.F.: Self-Resonant Frequency

When rated current is applied to the products, inductance will be within ±30% of initial inductance value range. Keep the temperature (ambient temperature plus self-generation of heat) under 125°C. When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°C max (ambient temperature 85°C). When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 20°C max (ambient temperature 85-105°C).

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Part Number	Inductance	Inductance Test Frequency	Rated Current (Isat)*	Rated Current (Itemp)*	DC Resistance	S.R.F.* (min.)
LQH2MPN680MGR□	68μH ±20%	1MHz	230mA	160mA(Ambient temp.85°C) 100mA(Ambient temp.105°C)	6.7Ω±20%	7MHz
LQH2MPN820MGR□	82μH ±20%	1MHz	210mA	150mA(Ambient temp.85°C) 90mA(Ambient temp.105°C)	7.3Ω±20%	5MHz

Operating temp. range (Self-temp. rise included): -40 to 125°C
 Operating temp. range (Self-temp. rise not included): -40 to 105°C
 Class of Magnetic Shield: Ferrite Core

For reflow soldering only

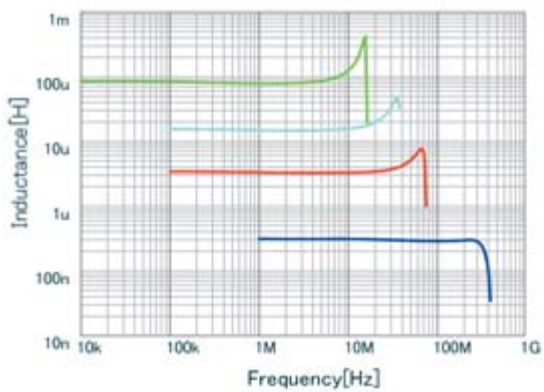
*Isat: Rated Current based on Inductance change

*Itemp: Rated Current based on Temperature rise

*S.R.F.: Self-Resonant Frequency

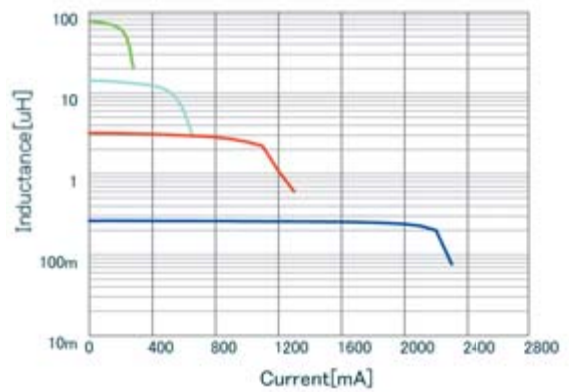
When rated current is applied to the products, inductance will be within ±30% of initial inductance value range. Keep the temperature (ambient temperature plus self-generation of heat) under 125°C. When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°C max (ambient temperature 85°C). When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 20°C max (ambient temperature 85-105°C).

Inductance-Frequency Characteristics (Typ.)



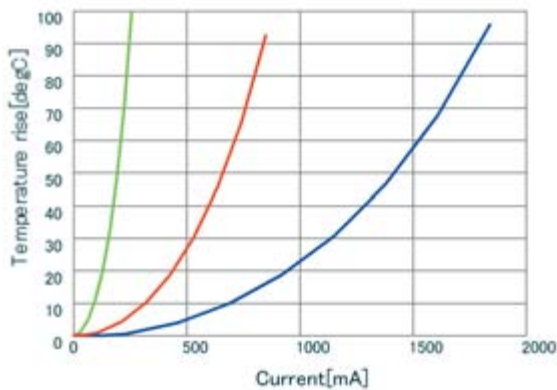
- LQH2MPNR33NGR L
- LQH2MPN820MGR L
- LQH2MPN3R3MGR L
- LQH2MPN150MGR L

Inductance-Current Characteristics (Typ.)



- LQH2MPNR33NGR DC-Bias, 20
- LQH2MPN820MGR DC-Bias, 20
- LQH2MPN3R3MGR DC-Bias, 20
- LQH2MPN150MGR DC-Bias, 20

Temperature Rise Characteristics (Typ.)

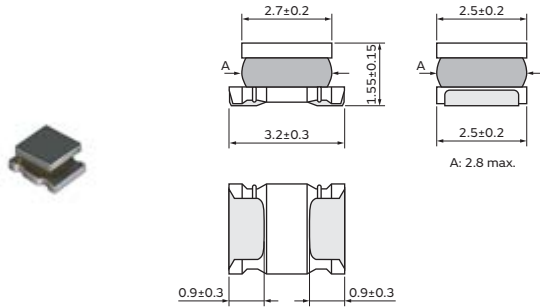


- LQH2MPNR33NGR DT_Current
- LQH2MPN820MGR DT_Current
- LQH2MPN680MGR DT_Current

Inductors for Power Lines

LQH32PB_N0 Series 1210 (3225) inch (mm)

Appearance/Dimensions



(in mm)

Packaging

Code	Packaging	Minimum Quantity
K	ø330mm Embossed Taping	7500
L	ø180mm Embossed Taping	2000

Rated Value (□: packaging code)

Part Number	Inductance	Inductance Test Frequency	Rated Current (I _{sat})*	Rated Current (I _{temp})*	DC Resistance	S.R.F.* (min.)
LQH32PBR47NNO□	0.47μH ±30%	1MHz	3400mA	2550mA(Ambient temp.85°C) 1600mA(Ambient temp.105°C)	0.030Ω±20%	100MHz
LQH32PB1R0NNO□	1.0μH ±30%	1MHz	2300mA	2050mA(Ambient temp.85°C) 1320mA(Ambient temp.105°C)	0.045Ω±20%	100MHz
LQH32PB1R5NNO□	1.5μH ±30%	1MHz	1750mA	1750mA(Ambient temp.85°C) 1010mA(Ambient temp.105°C)	0.057Ω±20%	70MHz
LQH32PB2R2NNO□	2.2μH ±30%	1MHz	1550mA	1600mA(Ambient temp.85°C) 970mA(Ambient temp.105°C)	0.076Ω±20%	70MHz
LQH32PB3R3NNO□	3.3μH ±30%	1MHz	1250mA	1200mA(Ambient temp.85°C) 670mA(Ambient temp.105°C)	0.12Ω±20%	50MHz
LQH32PB4R7NNO□	4.7μH ±30%	1MHz	1000mA	1000mA(Ambient temp.85°C) 530mA(Ambient temp.105°C)	0.18Ω±20%	40MHz
LQH32PB6R8NNO□	6.8μH ±30%	1MHz	850mA	850mA(Ambient temp.85°C) 510mA(Ambient temp.105°C)	0.24Ω±20%	40MHz
LQH32PB100MNNO□	10μH ±20%	1MHz	750mA	700mA(Ambient temp.85°C) 380mA(Ambient temp.105°C)	0.38Ω±20%	30MHz
LQH32PB150MNNO□	15μH ±20%	1MHz	600mA	520mA(Ambient temp.85°C) 320mA(Ambient temp.105°C)	0.57Ω±20%	20MHz
LQH32PB220MNNO□	22μH ±20%	1MHz	500mA	450mA(Ambient temp.85°C) 240mA(Ambient temp.105°C)	0.81Ω±20%	20MHz
LQH32PB330MNNO□	33μH ±20%	1MHz	380mA	390mA(Ambient temp.85°C) 190mA(Ambient temp.105°C)	1.15Ω±20%	13MHz
LQH32PB470MNNO□	47μH ±20%	1MHz	330mA	310mA(Ambient temp.85°C) 140mA(Ambient temp.105°C)	1.78Ω±20%	11MHz
LQH32PB680MNNO□	68μH ±20%	1MHz	280mA	275mA(Ambient temp.85°C) 120mA(Ambient temp.105°C)	2.28Ω±20%	11MHz
LQH32PB101MNNO□	100μH ±20%	1MHz	180mA	250mA(Ambient temp.85°C) 110mA(Ambient temp.105°C)	2.70Ω±20%	8MHz

Operating temp. range (Self-temp. rise included): -40 to 125°C
 Operating temp. range (Self-temp. rise not included): -40 to 105°C
 Class of Magnetic Shield: Magnetic Resin

For reflow soldering only

*I_{sat}: Rated Current based on Inductance change

*I_{temp}: Rated Current based on Temperature rise

*S.R.F.: Self-Resonant Frequency

When rated current is applied to the products, inductance will be within ±30% of nominal inductance value. When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°C max. Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.

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Part Number	Inductance	Inductance Test Frequency	Rated Current (I _{sat})*	Rated Current (I _{temp})*	DC Resistance	S.R.F.* (min.)
LQH32PB121MN0□	120μH ±20%	1MHz	170mA	200mA(Ambient temp.85°C) 80mA(Ambient temp.105°C)	4.38Ω±20%	8MHz

Operating temp. range (Self-temp. rise included): -40 to 125°C

Operating temp. range (Self-temp. rise not included): -40 to 105°C

Class of Magnetic Shield: Magnetic Resin

For reflow soldering only

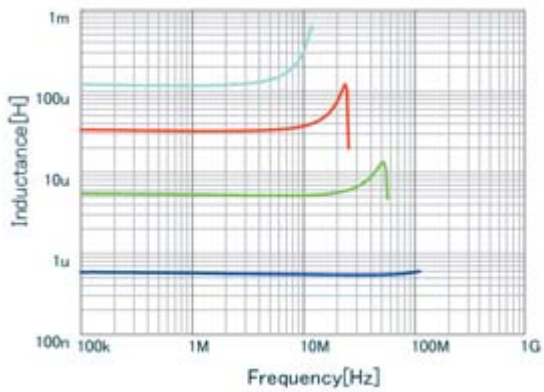
*I_{sat}: Rated Current based on Inductance change

*I_{temp}: Rated Current based on Temperature rise

*S.R.F.: Self-Resonant Frequency

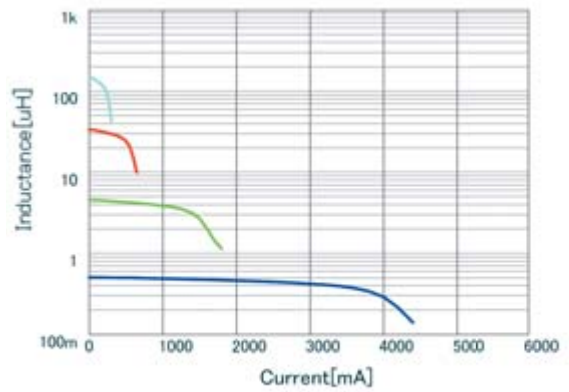
When rated current is applied to the products, inductance will be within ±30% of nominal inductance value. When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°C max. Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.

Inductance-Frequency Characteristics (Typ.)



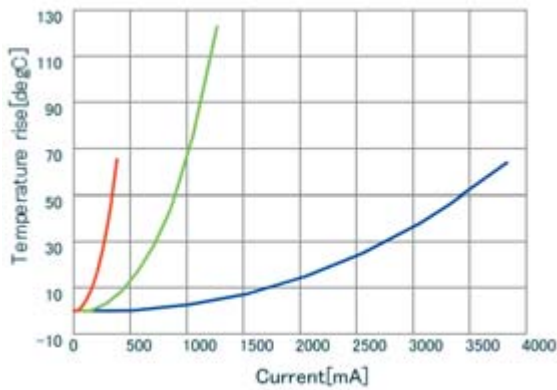
■	LQH32PBR47NN0 L
■	LQH32PB4R7NN0 L
■	LQH32PB330MN0 L
■	LQH32PB121MN0 L

Inductance-Current Characteristics (Typ.)



■	LQH32PBR47NN0 DC-Bias, 20
■	LQH32PB4R7NN0 DC-Bias, 20
■	LQH32PB330MN0 DC-Bias, 20
■	LQH32PB121MN0 DC-Bias, 20

Temperature Rise Characteristics (Typ.)

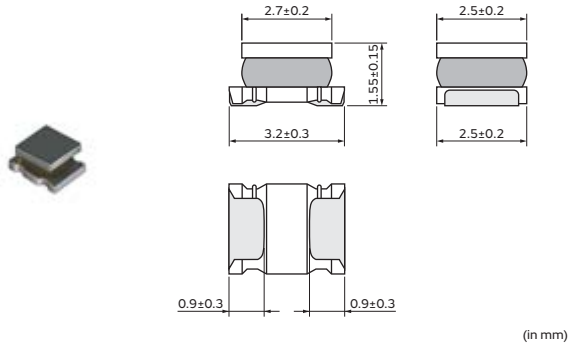


■	LQH32PBR47NN0 DT_Current
■	LQH32PB100MN0 DT_Current
■	LQH32PB101MN0 DT_Current

Inductors for Power Lines

LQH32PB_NC Series 1210 (3225) inch (mm)

Appearance/Dimensions



Packaging

Code	Packaging	Minimum Quantity
K	ø330mm Embossed Taping	7500
L	ø180mm Embossed Taping	2000

Rated Value (□: packaging code)

Part Number	Inductance	Inductance Test Frequency	Rated Current (I _{sat})*	Rated Current (I _{temp})*	DC Resistance	S.R.F.* (min.)
LQH32PBR47NNC□	0.47μH ±30%	1MHz	4400mA	2900mA(Ambient temp.85°C) 1490mA(Ambient temp.105°C)	0.024Ω±20%	100MHz
LQH32PB1R0NNC□	1.0μH ±30%	1MHz	3000mA	2500mA(Ambient temp.85°C) 1380mA(Ambient temp.105°C)	0.036Ω±20%	100MHz
LQH32PB1R5NNC□	1.5μH ±30%	1MHz	2600mA	2100mA(Ambient temp.85°C) 1110mA(Ambient temp.105°C)	0.053Ω±20%	70MHz
LQH32PB2R2NNC□	2.2μH ±30%	1MHz	2000mA	1850mA(Ambient temp.85°C) 910mA(Ambient temp.105°C)	0.064Ω±20%	70MHz
LQH32PB3R3NNC□	3.3μH ±30%	1MHz	1900mA	1550mA(Ambient temp.85°C) 800mA(Ambient temp.105°C)	0.100Ω±20%	50MHz
LQH32PB4R7NNC□	4.7μH ±30%	1MHz	1600mA	1200mA(Ambient temp.85°C) 610mA(Ambient temp.105°C)	0.155Ω±20%	40MHz
LQH32PB6R8NNC□	6.8μH ±30%	1MHz	1300mA	1100mA(Ambient temp.85°C) 550mA(Ambient temp.105°C)	0.220Ω±20%	40MHz
LQH32PB100MNC□	10μH ±20%	1MHz	1000mA	900mA(Ambient temp.85°C) 450mA(Ambient temp.105°C)	0.295Ω±20%	30MHz
LQH32PB150MNC□	15μH ±20%	1MHz	800mA	700mA(Ambient temp.85°C) 330mA(Ambient temp.105°C)	0.475Ω±20%	20MHz
LQH32PB220MNC□	22μH ±20%	1MHz	650mA	550mA(Ambient temp.85°C) 270mA(Ambient temp.105°C)	0.685Ω±20%	20MHz

Operating temp. range (Self-temp. rise included): -40 to 125°C
 Operating temp. range (Self-temp. rise not included): -40 to 105°C
 Class of Magnetic Shield: Magnetic Resin

For reflow soldering only

*I_{sat}: Rated Current based on Inductance change

*I_{temp}: Rated Current based on Temperature rise

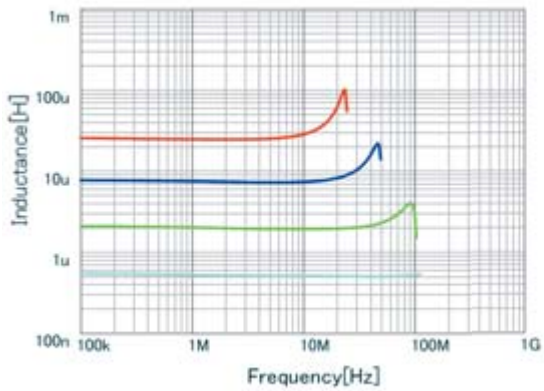
*S.R.F.: Self-Resonant Frequency

When rated current is applied to the products, inductance will be within ±30% of nominal inductance value. When rated current is applied to the products, the temperature rise caused by self-generated heat shall be limited to 40°C max. Keep the temperature (ambient temperature plus self-generation of heat) under 125°C.

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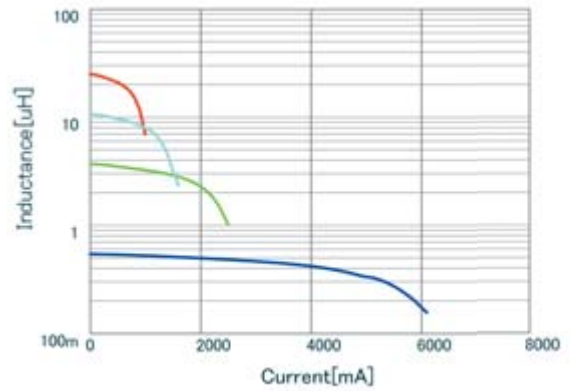
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Inductance-Frequency Characteristics (Typ.)



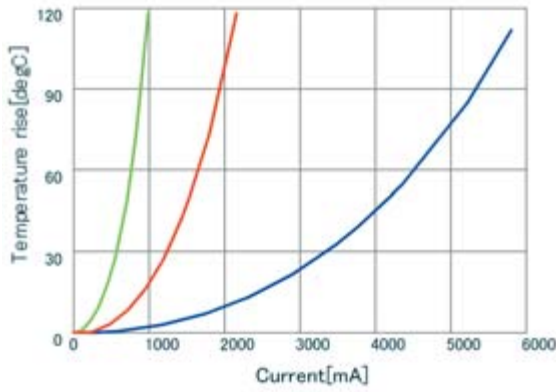
■	LQH32PB6R8NNC L
■	LQH32PB2R2NNC L
■	LQH32PB220MNC L
■	LQH32PBR47NNC L

Inductance-Current Characteristics (Typ.)



■	LQH32PBR47NNC DC-Bias, 20
■	LQH32PB3R3NNC DC-Bias, 20
■	LQH32PB220MNC DC-Bias, 20
■	LQH32PB100MNC DC-Bias, 20

Temperature Rise Characteristics (Typ.)



■	LQH32PBR47NNC DT_Current
■	LQH32PB220MNC DT_Current
■	LQH32PB4R7NNC DT_Current